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O9vux5 drosophila
O9yun18 choristoneu
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ALIGNMENTS

A DE CONTRACTOR Dong Z., Denton M., Gu S.M., Saikumar P., Venkatachalam M.A "Cloning of cDNA for rat inhibitor of approcsis protein 2." L submitted (SEP-1999) to the EmBL/GenBank/DDBJ databases. -: SIMILARITY: CONTAINS A RING-TYPE ZINC FINGER. EMBL; AP190020; AAF04585.1; -. R EMBL; AP190020; AAF04585.1; -. R InterPro; IPR001370; BIR. R InterPro; IPR001370; BIR. R InterPro; IPR001315; CARD. R InterPro; IPR001315; CARD. R InterPro; IPR001315; CARD. R InterPro; IPR001315; CARD. R Pfam; PF00659; BIR; 3. R Pfam; PF00679; ZF-C3HC4; 1. R Pfam; PF00679; ZF-C3HC4; 1. R SMART; SM00118; CARD; 1. R SMART; SM00118; CARD; 1. R SMART; SM00118; CARD; 1. Query Match 80.3 Best Local Similarity 81.7 Matches 488; Conservative O902C6 PRELIMINARY; PRT; 589 AA. Q902C6; Q1-MAY-2000 (TrEMBLrel. 13, Created) Q1-MAY-2000 (TrEMBLrel. 13, Last sequence update) Q1-JUN-2001 (TrEMBLrel. 17, Last annotation update) Q1-JUN-2001 (TrEMBLrel. 13, Creatian) Q1-JUN-2001 (TrEMBLrel. 13, Creatian) Q1-JUN-2001 (TrEMBLrel. 13, Created) Q1-JUN-2001 (TrEMBLrel. 13, Created) Q1-JUN-2000 (TrEMBLrel. 13, Last sequence update) Q1-JUN-2001 (TrEMBLrel. 17, Last sequence update) Q1-JUN-2001 (TrEMBLrel. 13, Last sequence update) Q1-JUN-2001 (TrEMBLrel. Eukaryota; Mētazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus NCBI_TaxID=10116; PROSITE; PS01282; BIR_REPEAT_1; PROSITE; PS50143; BIR_REPEAT_2; PROSITE; PS50209; CARD; 1. TISSUE-KIDNEY; Zinc-finger. SEQUENCE 589 AA; SEQUENCE FROM N.A. 66777 MW; 80.3%; Score 2630; DB 11; Pred. No. 1.3e-177; 53; Mismatches 48; E6812FFE3EA34142 CRC64; ωω Length

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SMART; SM00184; RING; 1.
SMART; SM00184; RING; 1.
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
NCBI_TaxID=10116;
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Holcik M., Lefebvr
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O1-JUN-1998 (TrEMBLrel. 0
O1-JUN-2001 (TrEMBLrel. 1
INHIBITOR OF APOPTOSIS PR
       SEQUENCE FROM N.A.
STRAIN-WHITE LECHORN; TISSUE-EMBRYONIC FIBROBLAST;
STRAIN-WHITE LECHORN; TISSUE-EMBRYONIC FIBROBLAST;
MEDLINE-98038801; PubMed-9372964;
YOU M., KU P.-T., Hrdlickova R., Bose H.R. Jr.;
YOU M., KU P.-T., Hrdlickova R., Bose H.R. Jr.;
"ch-TAP1, a member of the inhibitor-of-apoptosis protein mediator of the antiapoptotic activity of the v-Rel oncop Mol. Cell, Biol. 17:7328-7341(1997).

-1- FUNCTION: SUPPRESSOR OF APOPTOSIS IN ONCOPROTEIN V-RE
                                                                                                          Archosauria;
Gallus.
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FUNCTION:
CELLS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDSTILSDWINSNKQKMKYDFSCELYRMSTYSTFPAGVPVSERSLARAGFYYTGVNDKV
                                                                                                                                                                                                                                                                                                                                                                                            SNLSMQTHAARMRTFMYWPSSVPVQPEQLASAGFYYVGRNDDVKCFCCDGGLRCWESGDD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TLEHSSLFSGSYSSLSPNPLNSRAVEDISSSRTNPYSYAMSTEEARFLTYHMWPLTFLSP
                                                                                                                                                                                                                                                                        LRRLQEERTCKVCMDREVSIVFIPCGHLVVCRECAPSLRKCPICRGTIKGTVRTFLS
                                                                                                                                                                                                                                                                                   LRRLQEERTCKVCMDKEVSVVFIPCGHLVVCQECAPSLRKCPICRGIIKGTVRTFLS
                                                                                                                                                                                                                                                                                                                                                                                                                                              PWVEHAKWFPRCEFLIRMKGQEFVDEIQGRYPHLLEQLLSTSDTTGEENADPPIIHFGPG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SNLSMQTHSARMSTFLYWPSSVLVQPEQLASAGFYYVDHNDDVKCFCCDGGLRCWEPGDD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PLEQ---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MENSTYLSNWTKENKEKMKYDFSCELYRMSTYSAFPRGVPVSERSLARAGFYYTGVNDKV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               487;
                                                                                                                                                                                                                                                                                                                                                                                                                                     PWIEHAKWEPRCEFLIRMKGQEFVDEIQARYPHLLEQLLSTSDTSEEENADPPVVHLGPG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -GGIHSSLPSNPLNSRAVEDF-SLRMNPCSYAMSTEEARFLSYSMWPLSFLSP
                                                                                                                     Aves;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               <u>*</u>
                                                                                                                    Neognathae;
                                                                                                                               Chordata;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               66750
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        80.1%;
81.6%;
                                                                                                                                                                  . 06, Created)
. 06, Last sequence update)
. 17, Last annotation update)
PROTEIN 1 (IAP) (INHIBITOR O
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               54;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score
Pred.
                                                                                                                     Craniata; Ver; Galliformes;
                                                                                                                                                                                                                         PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               B4F7089BD7CD285B CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              e 2625; DB 11;
. No. 2.9e-177;
ismatches 48;
                                                                                                                                                                                                                         610
                                                                                                                     vertebrata; Eute
nes; Phasianidae;
                                                                                                                                                                                                                        AA
                                                                                                                                                                        QF
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                             oncoprotein.
                                                                                                                                Eute
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                                                                                                                                                                       CELL
                                       family,
                                                                                                                                leostomi;
                                                                                                                    Phasianinae;
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                                                                                                                                                                        APOPTOSIS
                                                                                                                                                                                                                                                                         589
                                                                                                                                                                                                                                                                                             618
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SO THE TEXT OF THE

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Query Match 71.4
Best Local Similarity 71.4
Matches 437; Conservative
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InterPro; IPR001315; CARD.
InterPro; IPR001841; Znf_ring.
InterPro; IPR001841; Znf_ring.
Pfam; PF00653; BIR; 3.
Pfam; PF00619; CARD; 1.
Pfam; PF00619; Zf-C3HC4; 1.
SMART; SM00238; BIR; 3.
SMART; SM00114; CARD; 1.
SMART; SM00114; CARD; 1.
SMART; SM00114; CARD; 1.
SMART; SM00114; RING; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PROSITE;
PROSITE;
PROSITE;
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ZN_FING
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REPEAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL; AF008592; AA
HSSP; Q13490; 1QBH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REPEAT
   479
                             487
                                                             419
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DOMAIN: THE RING FINGER IS IMPORTANT FOR ITS ANTIAPOPTOTIC SIMILARITY: MEMBER OF THE IAP FAMILY.
SIMILARITY: CONTAINS 3 BIR DOMAINS (BACULOVIRAL INHIBITION APOPTOSIS PROTEIN REPEAT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SIMILARITY: CONTAINS A C3HC4-CLASS L; AF008592; AAB88044.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SUBCELLULAR LOCATION: EXPRESSED PREDOMINANTLY IN THE CYTOPLASM THE V-REL-TRANSFORMED CELLS.

TISSUE SPECIFICITY: EXPRESSED AT RELATIVELY HIGH LEVELS IN THE SPLEEN, THYMUS, BURSA, INTESTINE, AND LUNG, AND AT VERY LOW LEV IN TESTIS, BRAIN, AND SKELETAL MUSCLE.

INDUCTION: INDUCED DURING THE V-REL-MEDIATED TRANSFORMATION
TSPMRNSFAHSLSPTLEHSSLFSGSYSSLSPNPLNSRAVEDISSSRTNPYSYAMSTEEAR 187
                                                                                                                                                                                                                                                                                                                                                                                                                       GEENADPPIIHFGPGESSSEDAVMMNTPVVKSALEMGFNRDLVKQTVQSKILTTGENYKT
                                                                                                                                                                                            FCCDGGLRCWESGDDPWVEHAKWFPRCEFLIRMKGQEFVDEIQGRYPHLLEQLLSTSDTT
                                                                                                                                                                                                                                       NIMDSSPLLASVMKQNAHCGELKYDLSCELYRMSTFSTFPVNVPVSERRLARAGFYYTGV 61
                                                                        VNDIVSALLNAEDEKREEEKEKQAEEMASDDLSLIRKNRMALEQQLTCVLPILDNLLKAN
                                                                                                                      VDENMD-PIIHFEPGESPSEDAIMMNTPVVKAALEMGFSRRLIKQTVQSKILATEENYKT
                                                                                                                                                                                FCCDGGLRCWESGDDPWIEHAKWFPRCEYLLRVKGGEFVSQVQARFPHLLEQLLSTSDTP
                                                                                                                                                                                                                                                                                                                                                               LSPSLRSM--TLSPSFEQVGYFSGSFSSFPQDPVTTRAAEDLSHLRSKLHNPSMSTEEAR
                                                           VNDLVSDLLTAEDEKREEEKERQFEEVASDDLSLIRKNRMALFQRLTSVLPILGSLLSAK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PS01282; BIR_REPEAT_1;
PS50143; BIR_REPEAT_2;
PS50209; CARD; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Zinc-finger;
30 97
176 242
262 329
563 597
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    242
329
597
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          71.48;
71.48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      68924 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Repeat.
BIR REPEAT 1.
BIR REPEAT 2.
BIR REPEAT 3.
C3HC4-TYPE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             78;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 2339; D
Pred. No. 4.7e
78; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .7e-157;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FINGER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            81;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          610;
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                             546
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В
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                                                                                                                                                                                         Matches
                                                                                                                                                                                                Best
                                                                                                                                                                                                                                                                                                                                                                                                                                              Q9ESE9
Q9ESE9;
01-MAR-2001
01-MAR-2001
01-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_Tax1D=10116;
[1]
                                                                                                                                                                                                                                                                                                                                                                                                               Rattus norvegicus (Rat).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                     01-MAR-2001 (TrEMBLrel 16, Cre
01-MAR-2001 (TrEMBLrel 17, Las
01-JUN-2001 (TrEMBLrel 17, Las
INHIBITOR OF APOPTOSIS PROTEIN
                                                                                                                                                                                                                               SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                               Holcik M.,
                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM
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               309
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 295
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                                                                                                                                                                                               Local
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                                                                                                                         SIMEDSTILSDWINS-NKQKMKYDFSCELYRMSTYSTFPAGVPVSERSLARAGFYYTGVN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GTIKGTVRTFLS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GIIKGTVRTFLS
                                                                     TYHMWPLTFLSPSELARAGFYYIGPGDRVACFACGGKLSNWEPKDDAMSEHRRHFPNCPF
                                                                                            TMPSGFAAS.
LENSLE-TLRFSISNLSMQTHAARMRTFMYWPSSVPVQPEQLASAGFYYVGRNDDVKCFC
                                                                                                     PMRNSFAHSLSPTLEHSSLFSGSYSSLSPNPINSRAVEDISSSRTNPYSYAMSTEEARFL
                              LKDVGQFTSQYTVSNLSMQTHAARVRTFSTWPSSALVHPQELASAGFYYTGHSDDVKCFC
                                                              TYQTWPLSFLSPAELAKAGFYYTGPGDRVACFACGGKLSNWDRKDDPLSEHRRHFPSCPF
                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                         ., Lefebvre C.A., Hicks K., Korneluk R
and Characterization of the Rat Homol
s Protein 1, 2, and 3 Genes.";
d (SEP-1999) to the EMBL/GenBank/DDBJ
                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                        N.A.
                                                                                                                                                                                                                               AA;
                                                                                            ----ESTGYFSGSYSSFPSDPVNFRANQDCPAFSTSPYHFAMNTEKARLL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  618
                                                                                                                                                                                                                               67326 MW;
                                                                                                                                                                                              66.78;
                                                                                                                                                                                         86;
                                                                                                                                                                                                                                                                                                                                                                                                                                    Created)
Last sequence update)
Last annotation updat
EIN 1.
                                                                                                                                                                                               Score 2185;
Pred. No. 3
                                                                                                                                                                                                                                                                                                                                                                                                              Craniata; Vertebrata;
Sciurognathi; Muridae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRT;
                                                                                                                                                                                                                               CC91385EEA62DE5A CRC64;
                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             602
                                                                                                                                                                                        ; DB 11;
3.4e-146;
hes 93;
                                                                                                                                                                                                                                                                                                                                                                        Homologs
                                                                                                                                                                                                                                                                                                                                                                                                                                              update)
                                                                                                                                                                                                                                                                                                                                                                                R.G.;
                                                                                                                                                                                                                                                                                                                                                          databases
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                                                                                                                                                                                                      Length
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; Murinae; Rat
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                                                                                                                                                                                                        602;
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                                                                                                                                                                                       Gaps
               368
                                             308
                                                                             249
                                                                                            174
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 354
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PRESULTI OPPORTUNITION OF THE PROPERTY OF THE 
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                                                                                 Query Match
Best Local Similarity 62.
Matches 328; Conservative
                                                                                                                                                                                                                Interpro; IPRO01370; BIR.
Interpro; IPRO01376; Caspase.
Interpro; IPRO0139; ICE_p20.
Interpro; IPRO03598; Ig_11ke.
Interpro; IPR003600; Ig_11ke.
Interpro; IPR003600; Ig_MHC.
Interpro; IPR003006; Ig_MHC.
Interpro; IPR003006; Ig_MHC.
Interpro; IPR003006; Ig_MHC.
INTERPRO0517; IPR003006; Ig_MHC.
INTERPRO0517; IPR00318; IRR; 3.
SMART; SM00418; IRR; 3.
SMART; SM00410; IG_11ke; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Van den Berghe H., Marynen P.;
"The apoptosis inhibitor gene API2 and a novel 18q gene, MLT, are recurrently rearranged in the t(11:18)(q21:q21)p6ssociated with mucosa-associated lymphoid tissue lymphomas.";
Blood 93:3601-3609(1999)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Blood 93:3601-36-1- SIMILARITY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EMBL; AF123094;
HSSP; Q13490; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Dierlamm J., Baens M., Wlodarska I., Stefanova-Ouzounova
Hernandez J.M., Hossfeld D.K., De Wolf-Peeters C., Hagem
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens (Human).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-MAY-2000
01-JUN-2001
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01-MAY-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
MEDLINE-99272400; PubMed-10339464;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID-9606;
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                                                                                                           51.2%;
; Score 1678; DB 4;
; Pred. No. 4.8e-110;
61; Mismatches 105;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     .•
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                                                                                                                                                                                                                        OC18D890287C723E CRC64;
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Query Match
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                                                                                                                                  Pendleton C.N., Bargmann W.J., Varadarajan J., B
"The apoptosis inhibitor ch-TAP1 is a direct tra
v-Rel and c-Rel.";
Submitted (OCT-2000) to the EMBL/GenBank/DDBJ da:
EMBL; AF311289; AAG42316.1; .
Interpro: IPR001370; BIR.
Pfam; PF00653; BIR; 3.
SMART; SM00238; BIR; 3.
SMART; SM00238; BIR; 3.
PROSITE; PS01282; BIR_REPEAT_1; 1.
PROSITE; PS0143; BIR_REPEAT_2; 3.
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Q9DDN2;
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01-MAR-2001
                                                                                                                      SEQUENCE
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01 (TrEMBLrel. 16, Last sequence update)
01 (TrEMBLrel. 17, Last annotation updat
INHIBITOR CH-IAP1 (FRAGMENT).
                                                                                                                   324 AA;
Conservative
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Neognathae; Galliformes; Phasianidae;
                                                                                                                   36567 MW; 5E2B89DEAE3733F3 CRC64
34.7%; Score 1138.5;
63.4%; Pred. No. 1.2,
tive 49; Mismatches
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Best Local Similarity
Matches 173; Conserv
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SEQUENCE
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STRAIR-WISTAR; TISSUB-OVARY, CORPUS LUTEUM;

Bradley C.K., Lareu R.R., Dharmarajan A.M.;

"Clouding and characterisation of an inhibitor of apopto;

"IAP) in the rat corpus luteum.";

Submitted (AUG-1998) to the EMBL/GenBank/DDBJ databases

EMBL; AF081503; AAC32497.1;

HSSP; Q13490; 1QBH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-NOV-1998 (TrEMBLrel. 08, Created)
01-NOV-1998 (TrEMBLrel. 08, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
INHIBITOR OF APOPTOSIS PROTEIN (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Rattus norvegicus (Rat).
Eukaryota: Metazoa; Chordata;
Mammalla: Eutheria; Rodentia;
NCBI_TaxID=10116;
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Pfam; PF00653; BIR; 2.

SMART; SM00238; BIR; 2.

SMART; SM00238; BIR; 2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   93 WKLGDSPIQKHKQLYPSCSFIQNLVSASLGSTSKNTSPMRNSFAHSLSPTLEHSSLFSGS 152
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                                                                                                                                                                                                              GPGDRVACFACGGKLSNWEPKDDAMSEHRRHFPNCPFLENSLETLRFSISNLSMQTHAAR
                                                                                                                                                                                                                                                                                                                                                                                                 WKQGDSPTEKHRQFYPSCSFVQTLLSGGLQSAAKNTSPAKSRFAHSL--PLEQ----GGI
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                                                                                                                                                                                 GPGDRVPCFACGGKLSNWEPNDDLLSEHRRHFPHCPFLENTSETQRFSVSNLSMQTHSAR
                                                                                                                                                                                                                                                                                         + HSSLPSNPLNSRAVEDF-SLRMNPCSYAMSTEEARFLSYSMWPLSFLSPAELGKAAFYYT
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224 AA;
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ID 09EQ05;
AC Q9EQ05;
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DT 01-MAR-2001 (TrEMBLrel. 16, Created)
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia, Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
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                                                                                                                                                                                                                                                                                                                                                                    DINKDE---EFVEEENRLKTFANFPSSSPVSASTLARAGFLYTGEGDTVQCFSCHAAVDR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FLSPSELARAGFYYIGPGDRVACFACGGKLSNWEPKDDAMSEHRRHFPNCPFL-----
LFVDKNMKYIPTEDVSGLSLEEQLRRLQEERTCKVCMDKEVSVVFIPCGHLVVCQECAPS
                                                                                                                                                                                         TTGENYKTYNDTVSALLNAEDEKREEEKEKQAEEMASDDLSLIRKNRMALFQQLTCVLPI 478
                                                                                                                                                                                                                                                                                            ----LDRPSETHADYL-----LRTGQVVDTSDT-IYPRNPAMCSEEARLKTFQNWPDYA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LSPTLEHSSLFSGSYSSLSPNPLNSRAVEDISSSRTNPYSYAMSTEEARFLTYHMWP-LT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WKLGDSPIQKHKQLYPSCSFIQNLVSASLGSTSKNTSP-------MRNSFAHS 138
                                                                                                     LDNLLKANVINKQEHDIIKQKTQIPLQARELIDTILVKGNAAANIFKNCLKEIDSTLYKN
                                                                                                                                                                                                                                                                  LGESVVRTAEKT-----PSVTKKIDDTIFQNPMVQEAIRMGFNFKDIKKTMEEKLQ 397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RSESGVSSDRNFPNSTNSPR----NPAMAEYDARIVTFGTWLYS--VNKEQLARAGFYAL
                                                                                                                                                            TSGSNYLSLEVLIADLVSAQKDNSQDE
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84; Mismatches 150; Indels 173;
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Pred. No. 1.8
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RC STRAIN-WISTAR; TISSUE-OVARY;

RA Lareu R.R., Bradley C.K., Lacher M., Friis R.R., Dharmarajan A.M.;

RA Cloning, characterization and regulation of an inhibitor of apoptosis reprotein in the rat corpus luteum.";

R protein in the rat corpus luteum.";

R Label Richard SEP-2000) to the EmbL/GenBank/DDBJ databases.

C-1- SIMILARITY: CONTAINS A RING-TYPE ZINC FINGER.

C-1- SIMILARITY: CONTAINS A RING-TYPE ZINC FINGER.

R EMBL; AF304334; AAG41193.1; -.

R EMBL; AF304334; AAG41193.1; -.

R InterPro; IPR001370; BBR.

R InterPro; IPR001370; BBR.

R Ffam; PF00053; BIR; 3.

R Ffam; PF00053; BIR; 3.

R SMART; SM00184; RING; 1.

R SMART; SM00184; RING; 1.
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Best Local Similarity 33.4
Matches 204; Conservative
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01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
101-JUN-2001 (TrEMBLrel. 17, Last sequence update)
1NHIBITOR OF APOPTOSIS PROTEIN 3.
Rattus norvegicus (Rat).
Eukaryota; Metazoa; Chordata; Cranlata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
NCBI_TaxID-10116;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PROSITE; PS01282; BIR_REPEAT_1; 1.
PROSITE; PS50143; BIR_REPEAT_2; 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     477 VDKCPMCCTVI 487
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   599 LRKCPICRGII
                              359 LLSTSDTTGEENADPPIIHFGPGESSSEDAVMMNTPVVKSALEMGFNRDLVKQTVQSKIL 418
                                                                292 GEGDKVKCFHCGGGLTDWKPSEDPWEQHAKWYPGCKYLLDEKGQEYINNI-----HLTHS 346
                                                                                                                              238 RSESGVSSDRNFPNSTNSPR----NPAMAEYDARIVTFGTWLYS--VNKEQLARAGFYAL
                                                                                                                                                                                                                                                                129 ----LDRPSETHADYL-----LRTGQVVDISDT-IYPRNPAMCSEEARLKTFQNWPDYA 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     432
                                                                                                                                                                                                                                                                                                                                                      16 DTNKDE---EFVEEFNRLKTFANFPSSSPVSASTLARAGFLYTGEGDTVQCFSCHAAVDR 72
                                                                                                                                                                                                                                                                                                                                                                                                                  FLSPSELARAGFYYIGPGDRVACFACGGKLSNWEPKDDAMSEHRRHFPNCPFL----- 250
                                                                                   GRNDDVKCFCCDGGLRCWESGDDPWVEHAKWFPRCEFLIRMKGQEFVDEIQGRYPHLLEQ
                                                                                                                                                                ------ENSLETLRFSISNLSMQTHAARMRTFMYWPSSVPVQPEQLASAGFYYV
                                                                                                                                                                                                                                                                                    LSPTLEHSSLFSGSYSSLSPNPLNSRAVEDISSSSTUPYSYAMSTEEARFLTYHMWP-LT 197
LGESVVRTAEKT-----PSVTKKIDDTIFQNPMVQEAIRMGFNFKDIKKTMEEKLQ
                                                                                                                                                                                                                                                                                                                                  WQYGDSAVGRHRRISPNCRFINGFYFEN-GAT-QSTSPGIQNGQYKSENCVGNRNHFA-- 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  501 AA; 56578 MW; 4863F69FF2E0C8CD CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ---KDISTEEQLRRLQEEKLCKICMDRNIAIVFVPCGHLVTCKQCAEA
                                                                                                                                                                                                                                                                                                                                                                                                                                                             27.4%; Score 898.5; DB 11; Length 501; 33.4%; Pred. No. 1.8e-55; tive 84; Mismatches 150; Indels 173;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     501 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                358
                                                                                                                                                                  298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     476
                                                                                                                                291
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	8 RSESGVSSDRNFPNSTNSPR	ω	Db .
LASAGFYYV 298	1ENSLETLRFSISNLSMOTHAARMRTFMYWPSSVPVQPEQLASAGFYYV	ა 5	0
FVLGRNVNV 237	8 HLSPRELASAGLYYTGIDDQVQCFCCGGKLKNWEPCDRAWSEHRRHFPNCFFVLG	17	Db
FL 250	æ	19	Qy
TEQNWPDYA 177	9LDRPSETHADYLLRTGQVVDISDT-IYPRNPAMCSEEARPKTEQNWPDYA	129	Db
TYHMWP-LT 197	LSPTLEHSSLFSGSYSSLSPNPLNSRAVEDISSSF	139	ρ
GNRNHFA 128		73	Db
-MRNSFAHS 138	WKLGDSPIQKHKQLYPSCSFIQNLVSASLGSTSKNTSP	93	Qy
FSCHAAVDR 72	6 DTNKDEEFVEEFNRLKTFANFPSSSPVSASTLARAGFLYTGEGDTVQCF	1	Db
FCCGLMLDN 92	w	ω	Оy
.h 496; : 173; Gaps 15;	y Match 27.4%; Score 896.5; DB 11; Length Local Similarity 33.1%; Pred. No. 2.5e-55; hes 205; Conservative 86; Mismatches 155; Indels	uer est atc	* @ O
	UENCE 496 AA; 5611/ MW; 98EF142AAEC58/98 CKC64;	SEQ.	
		2in	
	<pre>PROSITE; PS01282; BIR_REPEAT_1; 1. PROSITE; PS50143; BIR_REPEAT_2; 3.</pre>	PRO	DR DR
	RT; SM00184; RING; 1.	SMA	
	m; PF00097; zf-C3HC4; 1,	Pfa	
	m; PF00653; BIR; 3.	Pfa	
	erPro; IPR001370; BIR.	Int	
	SIMILARITY: CONTAINS A RING-TYPE ZINC FINGER.	EMB -	
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inhibitor of	t Homologs of the	Apo Apo	
	ž	HO1	
	THE PROPERTY OF THE PROPERTY O	[1]	
Murinae; Ractus.	cni; muridae;	NCB	
leostomi	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutel	Euk	
	tus norvegicus (Rat).	Rat	
	nnotation upda	IN I	
	MAR-2001 (TrEMBLrel. 16, Last sequence update)	01-	
	MAR-2001 (Trembirel, 16, Created)	01-	
	SFO PRELIMINARY; PRT; 496 AA.	360 360	; ;
	10	RESULT	RES
	VDKCPMCCT	477	DЬ
	9 LRKCPICRGII 609	599	Qy
VTCKQCAEA 476		432	Db
VVCQECAPS 598	9 LFVDKNMKYIPTEDVSGLSLEEQLRRLQEERTCKVCMDKEVSVVFIPCGHLVVCQECAPS	539	Qy
431	SSSQTSLQ	425	В
EIDSTLYKN 538	9 LDNLLKANVINKQEHDIIKQKTQIPLQARELIDTILVKGNAAANIFKNCLKEIDSTLYKN	479	γQ
424	TSGSNYLSLEVLIADLVSAQKDNSQDB	398	Db
QQLTCVLPI 478		419	Qy

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Query Match
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Q9TA69;
Q1-OCT-2000 (TrEMBLrel. 15, Created)
Q1-OCT-2000 (TrEMBLrel. 15, Last sequence update)
Q1-OCT-2000 (TrEMBLrel. 17, Last annotation update)
Q1-JUN-2001 (TrEMBLrel. 15, Created)
Q1-JUN-2001 (TrEMBLrel. 17, Last annotation update)
Q1-JUN-2001 (TrEMBLrel. 17, Last annotation update
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PROSITE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
STRAIN-BREED FAYOUMI; TISSUE-SPLEEN;
Zhou H., Lamont S.J.;
Genetic variation among chicken lines and mammalian species
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      InterPro; IPR001370; BIR: Pfam; PF00653; BIR; 2. SMART; SM00238; BIR; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            specific genes.";
Submitted (JAN-2000) to the EMBL/GenBank/DDBJ databases
EMBL; AF221083; AAF35320.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NON_TER
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID=9031;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                        SFPQDPVTTRAAEDLSHLRSKLHNPSMSTEEARLRTFHAWPLMFLSPTELAKAGLYYLGT 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SLSPNPLNSRAVEDISSSRTNPYSYAMSTEEARFLTYHMWPLTFLSPSELARAGFYYIGP 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VDKCPMCCTVITFKQKIFM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LRKCPICRGIIKGTVRTFL 617
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GEGDKVKCFHCGGGLTDWKPSEDPWEQHAKWYPGCKYLLDEKGQEYINNI-----HLTHS 346
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GRNDDVKCFCCDGGLRCWESGDDPWVEHAKWFPRCEFLIRMKGQEFVDEIQGRYPHLLEQ
                                                                                                                     ADKVACFTCGGQLSNWEPKDNAMSEHRRHFPNCFEVENLMRDQPSFNVSNVTMQTHEARV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -----SSQTSLQ----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LDNLLKANVINKQEHDIIKQKTQIPLQARELIDTILVKGNAAANIFKNCLKEIDSTLYKN 538
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TSGSNYLSLEVLIADLVSAQKDNSQDE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LGESVVRTAEKT-----PSVTKKIDDTIFQNPMVQEAIRMGFNFKDIKKTMEEKLQ
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                                                                                  KTFINWPTRIPVQPEQLADAGFYYVGRNDDVKCFCCDGGLRCWESGDDPWIEHAKWFPRC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PS01282; BIR_REPEAT_1;
PS50143; BIR_REPEAT_2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      197
197 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
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22602 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             24.5%; Score 801.5; DB 13, 68.4%; Pred. No. 3.9e-49; tive 33; Mismatches 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            495
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
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Best Local :
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Q9IA70;
Q9IA70;
Q1-OCT-2000 (TrEMBLrel. 15, Created)
Q1-OCT-2000 (TrEMBLrel. 15, Last sequence update)
Q1-JUN-2001 (TrEMBLrel. 17, Last annotation update)
TMHIBITOR OF APOPTOSIS 1 (FRAGMENT).
Gallus gallus (Chicken).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Butchosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
                                                                                                                                                                                                                                                                                                                                                O9R015;
01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
NEURONAL APOPTOSIS INHIBITORY PROTEIN.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Q9R015
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A
MEDLINE=99431676; PubMed=10501978; Huang S., Scharf J.M., Growney J.D
                                                                                                                                  NCBI_TaxID=10090;
                                                                                                                                                                                                Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                   Mus musculus (Mouse)
                                                                                                                                                                                                                                                                                                                              BIRC1E OR NAIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NCBI_TaxID=9031;
                                                                                       SEQUENCE FROM N.A.
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EYLLRVKGGEFVSQVQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADKVACFTCGGQLSNWEPKDNAMSEHRRHFPNCPFVENLMRDQPSFNVSNVTMQTHEARV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GDRVACFACGGKLSNWEPKDDAMSEHRRHFPNCPFLENSL-ETLRFSISNLSNQTHAARM
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EYLLRVKGGEFVSQV 195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  24.38;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 796.5; DB 1
Pred. No. 8.6e-49;
3; Mismatches 28
                                                                                                                                                                                                        Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRT;
    J.D.,
        Endrizzi M.G.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          597
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DB 13;

195; 1, Gaps

Indels Length

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Dietrich

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RESULT
Q9VUX5
ID Q9
AC Q0
AC Q0
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Best Local S
Matches 163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The mouse Naip gene cluster on Chromosome 13 encodes several distinct functional transcripts.";

Mamm. Genome 10:1032-1035(1999).

EMBL; AF135493; AD56765.1; -.

HSSP; 013490; 10BH.

MGD; MGI:1298220; Bircle.

InterPro; IPR001370; BiR.

Pfam; PF00653; BiR; 3.

SMART; SM00228; BiR; 3.

PROSITE; PS01282; BiR_REPEAT_1; UNKNOWN_2.

PROSITE; PS01282; BiR_REPEAT_2; 3.

SEQUENCE 597 AA; 68322 MW; 4042E36E51A7F9A0 CRC64;
                                                                            01-MAY-2000 (TrEMBLrel. 13, 01-MAY-2000 (TrEMBLrel. 13, 01-JUN-2001 (TrEMBLrel. 17,
                                                                                                                                                            Q9VUX5;
Drosophila melanogaster (Fruit fly)
                                                                                                                                                                                                                                                                                                                                                                                                                                       461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       405
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                91
                         GENE PRODUCT.
OR CG12284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   N
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FYYIGPGDRVACFACGGKLSNWEPKDDAMSEHRRHFPNCPFLEN--SLETLRFSISNLSM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GSYSSLSPNPLNSRAVEDISSSRTNPYSYAMSTEEARFLTYHMWPLTF--LSPSELARAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DNWKLGDSPIQKHKQLYPSCSFIQNLVSASLGSTSKNTSPMRNSFAHSLSPTLEHSSLFS 150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   KMKKGFNSQMRSEAKRLKTFETYDTFRSWTP---QEMAAAGFYHTGVRLGVQCFCCSLIL 58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               *LQARELI - *DTILVKGNAAANIFKNCLKEIDSTL - - - - YKNLFYDKNMKYIPTED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   --NRDLVKQTVQS-----KILTTGENYKTV------NDIVSALLNAEDEK--REEEKEK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LEQLLSTSDTTGEEN-ADPPIIHFGPGESSSEDAVMMNTPVVKSA------LEMGF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FVFTGKRDTVQCFSCGGSLGNWEEGDDPWKEHAKWFPKCEFLQSKKSSEEIAQYIQSYEG
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                                                                                                                                                                                                                                                                                                                                                                              VSGLSLEEQLRRLQEERTCK 572
                                                                                                                                                                                                                                                                                                                                                                                                                                       VLTFHDILDDDSVIEIARAATSGGFQKLENLDISMNHKITEEGYRNFF---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FAQALGS ---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              QAEEMASDDLSLIRKNRMALFQQLTCVLPILDNLL--KANVINKQEHDIIKQKTQIP---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LSNCESLMAVLASCKKLREIEFSGRCFEAMTFVNILPNFVSLKILNLKDQQFPDKETSEK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          --ALPEATETTRESNHGDAAAVH------STVVVKFIQNFPNLHVFHLKCDF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 YTGKKDIVRCFSCGGCLEKWAEGDDPMEDHIKFFPECVFLQTLKSSAEVIPTLQSQY---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 YVGRNDDVKCFCCDGGLRCWESGDDPWVEHAKWFPRCEFLIRMKGQ-EFVDEIQGRYPHL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          QTHAA-----RMRTFMYWPSSVPVQPEQLASAGFY
                                                                                                                                                                                                                                                                                                                                 ----QALDNLPNLQELNICR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         163; Conserv
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nilarity 26.3%;
Conservative 7
                                                                                                                                                                                           PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                 524
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                                                                            Created)
Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 494; DB 11;
Pred. No. 8.1e-27;
'8; Mismatches 197;
                                                                                                                                                                                           PRT;
                                                                                                                                                                                           438 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            197;
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Matches

127;

Conservative

61;

Mismatches

128;

Indels

242;

Gaps

1e-26

Similarity

22

218 VACFACGGKLSNWEPKDDAMSEHRRHFPNCPF------

------LENSLETLRFSI-

261 77 217

NSRAVE----DISSSRTNPYSYAMSTEEARFLTYHMWPLTFLSPSELARAGFYYIGPGDR NTNATQLEKNNINKTRMND----LNREETRLKTFTDWPLDWLDKRQLAQTGMYFTHAGDK

VKCFFCGVEIGCWEQEDQPVPEHQRWSPNCPLLRRRTTNNVPINAEALDRILPPISYDIC

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SOUTH TO DESCRIPTION OF THE CONTRACT OF THE CO
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Musc
Ephydroidea; Drosophilidae; Drosophila.
NCBI_TaxID=7227;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=20196006; PubMed=10731132;
                                                                                                                                         PROSITE; PS01282; BIR_REPEAT_1; PROSITE; PS50143; BIR_REPEAT_2;
                                                                                                                                                                                        SMART; SM00238; BIR; 2.
SMART; SM00184; RING; 1
                                                                                                                                                                                                                                     Pfam; PF00053; BIR; 2.
Pfam; PF00097; zf-C3HC4; 1.
                                                                                                                                                                                                                                                                                                                                                     HSSP; Q13490; 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                               InterPro;
                                                                                                                                                                                                                                                                                    InterPro; IPR001370; BIR.
InterPro; IPR001841; Znf_
                                                                                                                                                                                                                                                                                                                                 FlyBase; FBgn0003691; th.
                                                                                              438
                                                                                              AA;
                                                                                              48038
15.0%;
                                                                                                                                                                                                                                                                                    Znf_ring.
                                                                                                 WW.
  Score 490;
Pred. No.
                                                                                              24CA8BC13F5DEF31 CRC64;
                             DB
                           5:
                      Length 438
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Muscomorpha;
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RESULT 15
O9YNL8
AC O9YNL8
AC O9YNL8
AC O9YNL9
AC O1-MAY
                                                                                                                                                                                                                                     C STRAIN-RELAND;

(A Lauzon H., Arif B.M., Ladd T., Palli R.;

(A Lauzon H., Arif B.M., Ladd T., Palli R.;

(T "CfMNPV IAR gence.";

(T "SIMILARITY: CONTAINS A RING-TYPE ZINC FINGER.

(C -! SIMILARITY: MODIAN A RING-TYPE ZINC FINGER.

(C -! SIMILARITY: SMO0184; RING: 1.

(C -! SIMILARITY: SMO0184; RING: 1.)

(C -! SIMILARITY: SIMILARITY: SMO0184; BIR_REPEAT_1; UNKNOWN_1.

(C -! SIMILARITY: SIMILARITY: SMO0184; BIR_REPEAT_2; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           B
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                                                         Query Match
Best Local Similarity
Matches 112; Conserva
                                                                                                                                                                                                Zinc-finger.
Zinc-generation 281 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Choristoneura fumiferana nuclear polyhedrosis virus (CfMNPV). Viruses; dsDNA viruses, no RNA stage; Baculoviridae; Nucleopolyhedrovirus. Nucleopolyhedrovirus. NCBI_TaxID-10448;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Q9YNL8;
01-MAY-1999 (TrEMBLrel. 10,
01-MAY-1999 (TrEMBLrel. 10,
01-JUN-2001 (TrEMBLrel. 17,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Q9YNL8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
181 MSTEEARFLTYHMWPLTFLSPSELARAGFYYIGPGDRVACFACGGKLSNWEPKDDAMSEH 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      421
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421 GENYKTVNDIVSALLNAEDEKREEEEKEKQAEEMASDDLSLIRKNRMALEQQLTCVLPILD 480
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  271
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VEATAVATPSTNSSGST-----SIPEEKLCKICYGAEYNTAFLPCGHVVACAKCASSVT 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -----TAATRIE-----NKI 366
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATGDVQPETCRPSAASGNYFPQYPEYAIETARLRTFEAWPRNLKQKPHQLAEAGFFYTGV 257
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ----SNLSMQTHA----
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                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -AAKPVLAEEKEESSSIGGV-----
                                                                                                                                                                                                                       32090 MW;
                                                         14.8%; Score 486; DB 12;
24.5%; Pred. No. 1.1e-26;
tive 43; Mismatches 89;
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                                                                                                                                                                                                                       B2D9BE8A359F105E CRC64;
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                                                         89;
                                                                                                                      Length
                                                            Indels 214;
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242 KIYCFYPCGHYVACGKCASSLTNCPICRYTYETAVRMY 279
                     579 VSVVFIPCGHLVVCQECAPSLRKCPICRGIIKGTVRTF 616
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                                                                                                                                                                              VKGRDYVQKV------VTESCAIRDTT------
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                                                                                                            SLIRKNRMALFQQLTCVLPILDNLLKANVINKQEHDIIKQKTQIPLQARELIDTILVKGN 518
                                                                                                                                                                                                   MKGQEFYDEIQGRYPHLLEQLLSTSDTTGEENADPPIIHFGPGESSSEDAVMMNTPVVKS 398
                                                                                                                                                                                                                                                                       QKWAPQCPFLRRSGATLSAPQERAGLHAPQEREATNQLPSPPPAHPKYAIEAARLRTFTE 133
                                                                                                                                   -----KKQVVKHTV------
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                                            NLPDEKLCKICYYDE
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Page 10